

WHAT IS CLAIMED IS:

1. ~~9.~~ An air conditioner for a hybrid car, which is provided in a hybrid car equipped with an engine and an electric motor for running and which air conditions a vehicle interior by a refrigerating cycle formed to include a compressor and an evaporator, comprising:

driving shafts provided respectively in the engine and in the electric motor;

an output shaft connected to the driving shafts of the engine and the electric motor and rotated synchronously with a driving source which is one of the engine and the electric motor;

load reduction means for reducing the driving load of said output shaft which rotates integrally with the driving shaft of the engine when the electric motor is driven; and

driving force transmitting means which connects said output shaft and the driving shaft of the compressor to transmit the driving force of said output shaft to the compressor.

2. ~~10.~~ An air conditioner for a hybrid car according to claim ~~9~~<sup>1</sup>, wherein said load reduction means is valve opening means for opening one of an intake valve and an exhaust valve while the engine is stopped.

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An air conditioner for a hybrid car, which is provided in a hybrid car equipped with an engine and an electric motor for running and which air conditions a vehicle interior by a refrigerating cycle formed to include a compressor and an evaporator, comprising:

an auxiliary-machine motor which drives a plurality of auxiliary machines provided in the hybrid car;

second driving force transmitting means which can transmit the driving force of the engine and the driving force of said auxiliary-machine motor to the plurality of auxiliary machines and also to the driving shaft of the compressor;

driving force interrupting means which separates the driving shaft of the engine and said second driving force transmitting means from each other; and

control means which separates the driving shaft of the engine and said second driving force transmitting means from each other by said driving force interrupting means when the engine is stopped and allows the plurality of auxiliary machines including the compressor to be driven by said auxiliary-machine motor.